

# **NCDOT Prioritization 3.0 Project Summary**

**SPOT ID:** H110995 Status: Submitted Mode: Highway

# **US-401 (Louisburg Road)**

From/Cross Street: SR 2224 (Mitchell Mill Road) / SR

2044 (Ligon Mill Road)

Specific Improvement Type: 7 - Upgrade At-grade Intersection to Interchange or Grade Separation

Project Category: Regional Impact

TIP#: FS-1205B

**Fully Funded in Draft STIP?** 

Cost to NCDOT: \$13,704,000

**Description:** 

Length: 2

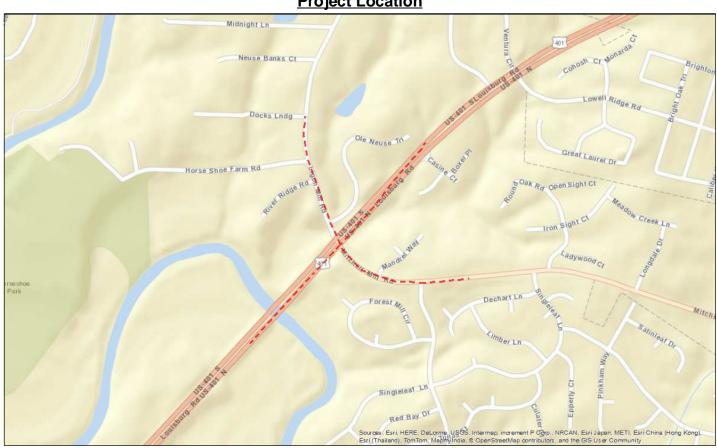
To:

Convert At-grade Intersection to Interchange

Division(s): Division 5 County(s): WAKE

MPOS(s)/RPO(s): Capital Area MPO

## **Project Location**



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Statewide N	Mobility 1	Fotal Score: (	0
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Quantitative Score	Division Engineer Local Input Points	MPO/RPO Local Input Points
	N/A	N/A
Totals: Weight: 0% Weighted Score: 0		

# **Regional Impact Total Score: 62.82**

Quantitative Score		Division Engineer Local Input Points	MPO/RPO Local Input Points
Congestion (V/C) (25%) Safety (10%) [Travel Time] Benefit/Cost (25%) Accessibility / Connectivity (10%)  Totals: Weight: 70% Weighted Score	68.15 66.65 1.87 100.00	Percent: 15% Points: 96	Percent: 15% Points: 95

# **Division Needs Total Score: 20.67**

Quantitative Score		Division Engineer Local Input Points	MPO/RPO Local Input Points
Safety (10%) [Travel Time] Benefit/Cost (20%) Congestion (V/C) (20%)	66.65 1.87 68.15	Percent: 25% Points: 0	Percent: 25% Points: 0
Totals: Weight: 50% Weighted Scor	e: 20.67		

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## Project Data \*

### **Existing Conditions**

#### **Existing Cross-Section:** Speed Limit: 55 2 Length (miles); Arterial Facility Type: None Access Control: Functional Classification: Minor Arterial Terrain Type: Rolling Lane Width: 11 Paved Shoulder Width: 0 Roadway has Curb & Gutter? Yes Volume (AADT): 40984.9 Capacity: 47517.18 Volume/Capacity Ratio: 0.86 % Autos: 96% % Trucks: 4% Truck Volume: 1556.38 0 Crash Density: 0 Crash Severity: 0 Critical Crash Rate: Crash Frequency: 100 Severity Index: 33.3 County Tier Designation: 3 Non-Interstate STRAHNET No Route? Average Commuting Time: 26 Existing Median Type (for Undivided Cost Estimation): Pavement Condition Rating: 80 25.91 **Actual Congested Speed:** Travel Time Index: 1.74

#### **Project Benefits**

Project Cross-Section:	
Speed Limit:	55
Length (miles):	2
Facility Type:	Multi-Lane Highway
Access Control:	Partial
Functional Classification:	Minor Arterial
TerrainType:	Rolling
DOT Design Lane Width:	12
DOT Design Paved Shoulder Width:	4
Travel Time Savings for 30 Years (Total):	1146000
Travel Time Savings for 30 Years (Autos):	1102481.36
Travel Time Savings for 30 Years (Trucks):	43518.64
Long-Term Employment:	
% Change in Economy:	
Provides Direct Connection to Transportation Terminal?	No
Does project upgrade how the roadway functions?	Yes
In CTP or LRTP?	No
CTP/LRTP Name:	
CTP/LRTP Completion Year:	
Submitted by:	Division 5

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<sup>\*</sup> Data reflects calculations which include weighted averages (where applicable) and represent raw output from the Department's SPOT Online tool and associated databases.

US-401 (Louisburg Road) SPOT ID H110995

# **Project Ownership**

## **Division**

Division	Percent	Regional Impact	Division Needs
Division 5	100%	96	0
	0%	0	0
	0%	0	0
TOTAL Division Points		96	0

### MPO/RPO

MPO/RPO	Percent	Regional Impact	Division Needs
Capital Area MPO	100%	95	0
	0%	0	0
	0%	0	0
TOTAL MPO/RPO Points		95	0

# **Project Cost and Source**

Construction Cost:	\$11,514,000	TIP Unit
Right-of-Way Cost:	\$2,190,000	Cost Estimation Tool
Utilities Cost:	\$0	Cost Estimation Tool
Total Project Cost:	\$13,704,000	
Other Funding:	\$0	None
Cost to NCDOT :	\$13,704,000	

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